



## LIGHTWEIGHT IMPROVED TRANSPARENT ARMOR FOR INDIVIDUAL WARFIGHTERS | WarSTAR

### OBJECTIVES

- Develop improved transparent armor systems for the individual Soldier.

### APPROACHES

- Evaluation and optimization of new and existing materials (Near term), and
- Applying new advanced technologies (Long term).

### POTENTIAL BENEFITS OF THIS TECHNOLOGY

- Reduced weight and bulk with equal or better ballistic performance

### TECHNICAL RISK FACTORS

- Enhancement of ballistic performance of transparent armor materials.
- Incorporation of advanced technologies without harming the optical properties.
- Proper abrasion and weather resistant coating without harming the ballistic properties.

### CANDIDATE MATERIAL — ENGINEERED POLYAMIDE

- High performance material that can be applied in all transparent armors for Soldier Force Protection.
- This material exhibits superior ballistic protection over currently fielded Polycarbonate (PC).
- Scratch resistant and anti-fog coating materials for this material were developed and applied successfully.
- Ballistic protection of fragment protective face shields and goggles fabricated with this material are 30-40% better than currently fielded PC.

### POINT OF CONTACT:

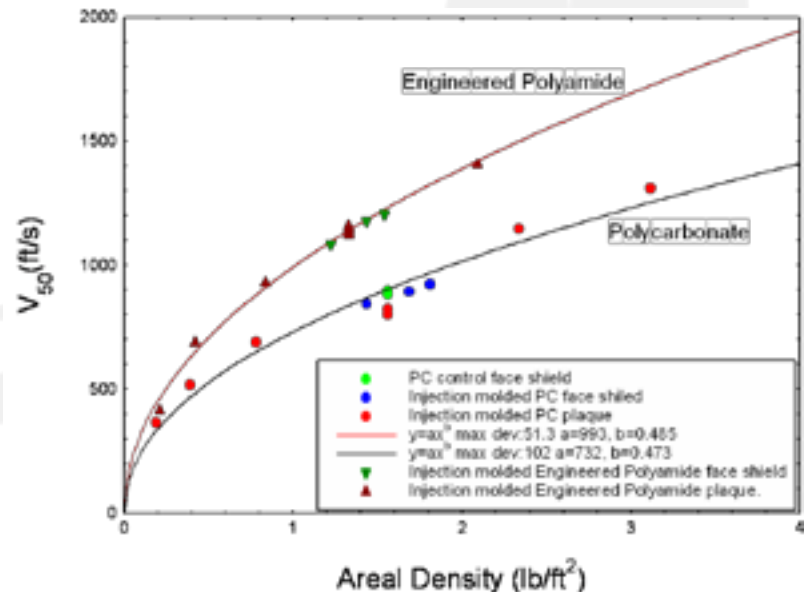
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TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.